What is claimed is:

- 1. (Currently Amended) A method of treating myotonic dystrophia in a subject, comprising administering <u>by intramuscular injection</u> to a mammal in need thereof, a therapeutically effective amount of recombinant adeno-associated virus (rAAV) vector comprising a promoter operably linked to a nucleic acid encoding a <u>MBNL1</u> protein selected from the group consisting of: <u>MBNL1, MBNL2 and MBNL3 protein</u>, wherein expression of the protein results in reducing myotonic dystrophia in the subject.
 - 2. (Cancelled)
 - 3. (Cancelled)
- 4. (Original) The method of claim 1, wherein treating comprises reversing the mis-splicing of the Clcn1 skeletal muscle chloride channel.
- 5. (Original) The method of claim 1, wherein treating comprises reversing the mis-splicing of the Amyloid beta (A4) precursor protein (APP).
- 6. (Original) The method of claim 1, wherein treating comprises reversing the mis-splicing of the NMDA receptor NR1 (GRIN1).
- 7. (Original) The method of claim 1, wherein treating comprises reversing the mis-splicing of the Microtubule-associated protein tau (MAPT).

- 8. (Original) The method of claim 1, wherein treating comprises reversing the mis-splicing of the TNNT2 (cTNT) protein.
 - 9. (Cancelled)
- 10. (Original) The method of claim 1, wherein the mammal is human.
- 11. (Original) The method of claim 1, wherein the mammal in need of treatment has RNA inclusions in neuronal cells.
- 12. (Currently Amended) A pharmaceutical composition comprising a recombinant adeno-associated virus (rAAV) <u>vector comprising a promoter operably linked to a nucleic acid encoding MBNL1 protein containing a transgene that encodes at least one protein selected from the group consisting of MBNL1, MBNL2, MBNL3, and combinations thereof.</u>
 - 13. 32. (Cancelled)
- 33. (New) The method of claim 1, wherein myotonic dystrophia is characterized by myotonia.
- 34. (New) A method of treating myotonia in the muscle of a subject suffering from myotonia, comprising intramuscular injection of a recombinant adeno-associated virus (rAAV) vector comprising a promoter operably linked

to a nucleic acid encoding a MBNL1 protein, wherein expression of the protein results in reducing myotonia in the muscle of the subject.